

FIG. 2

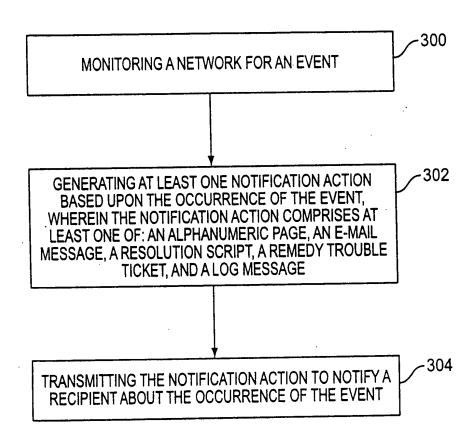


FIG. 3

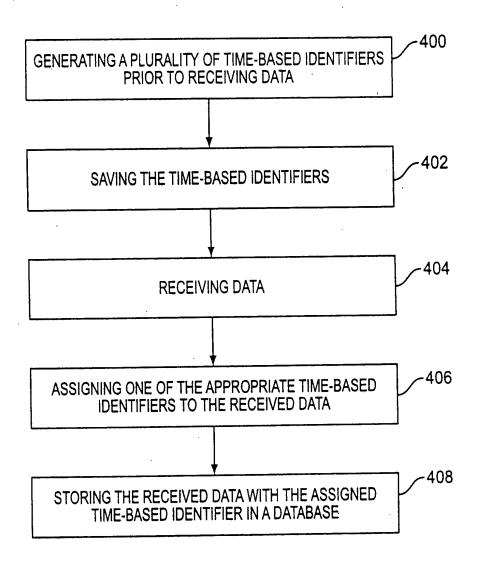


FIG. 4

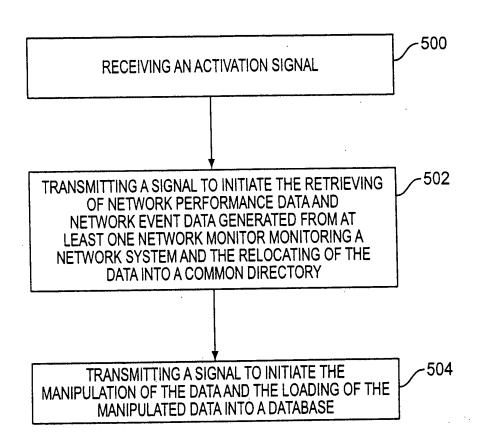
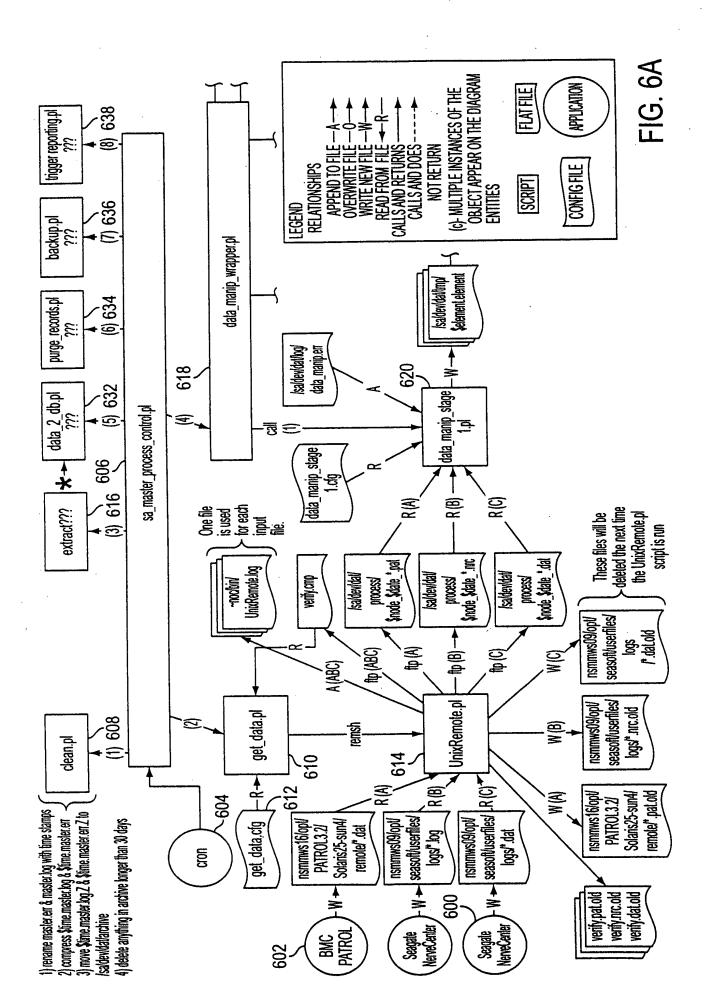
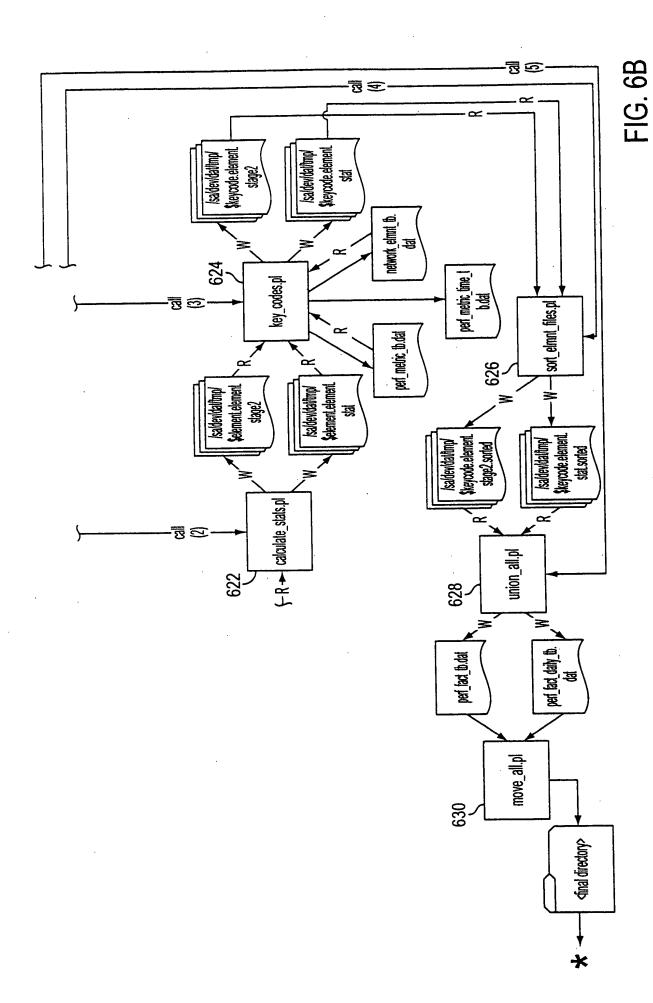


FIG. 5





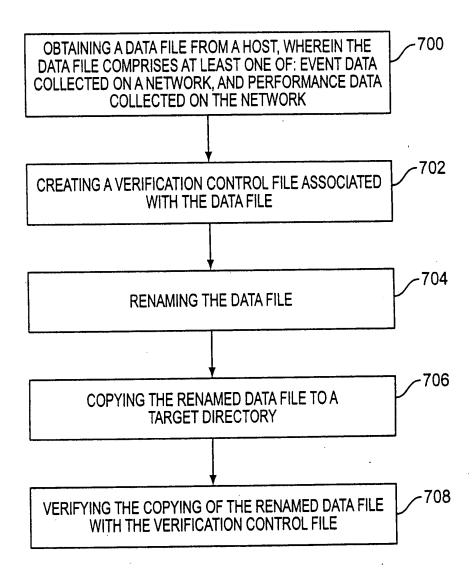
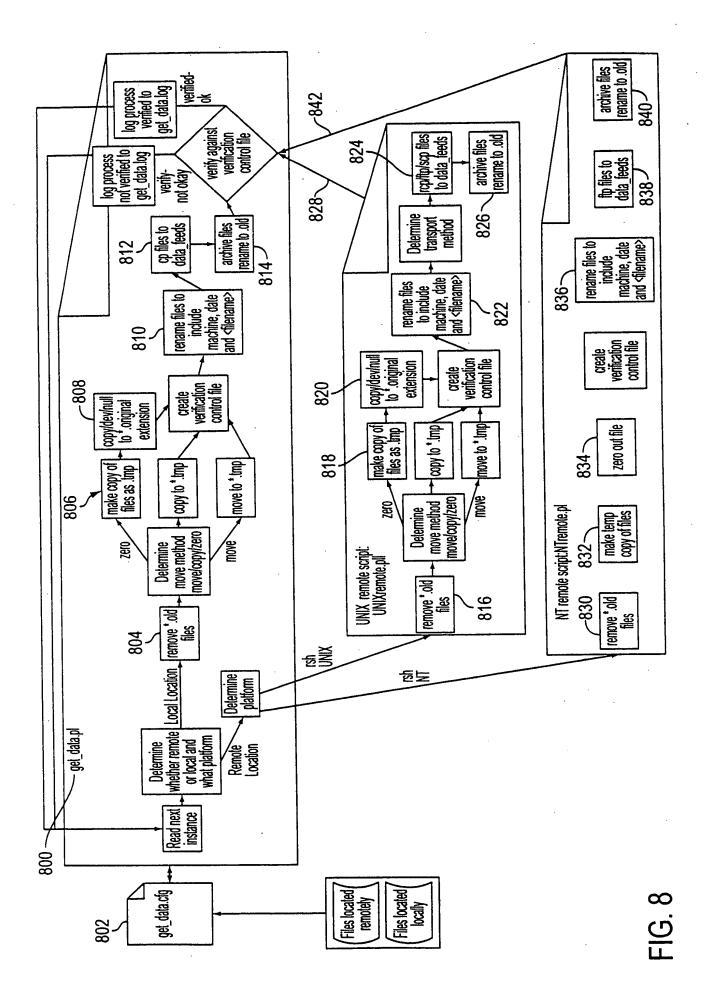
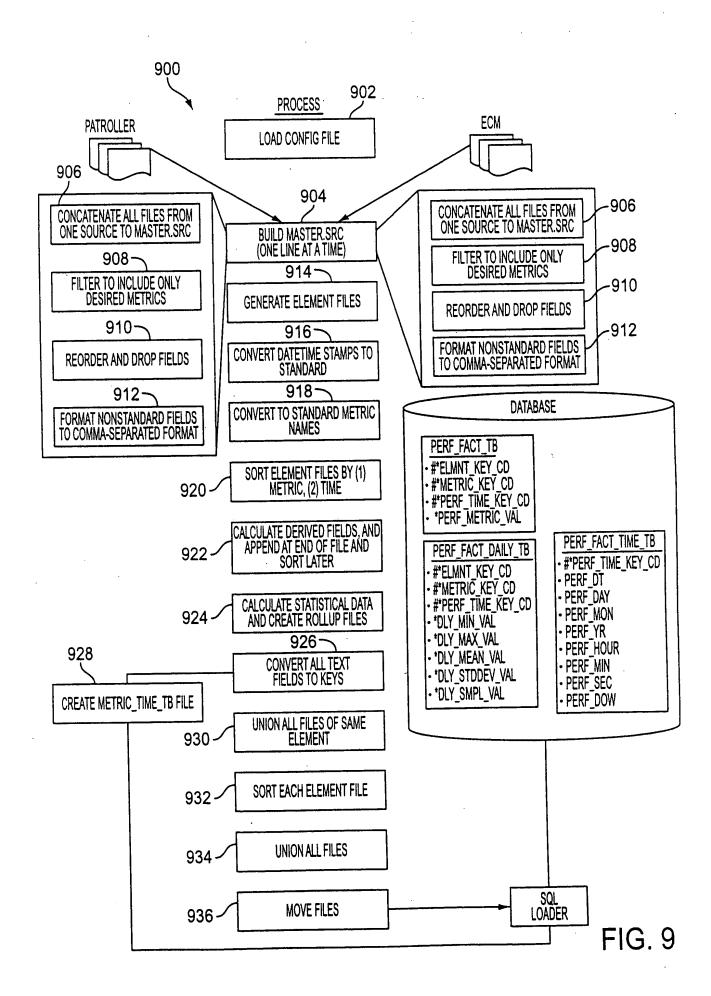


FIG. 7





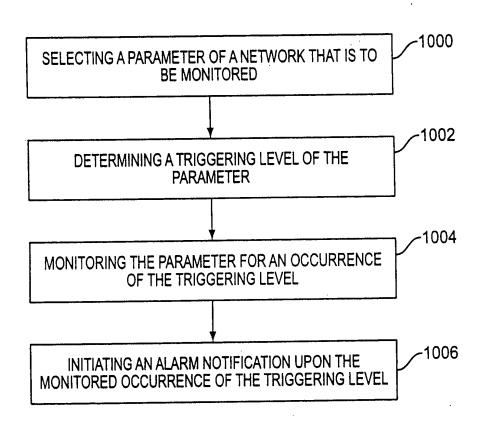


FIG. 10

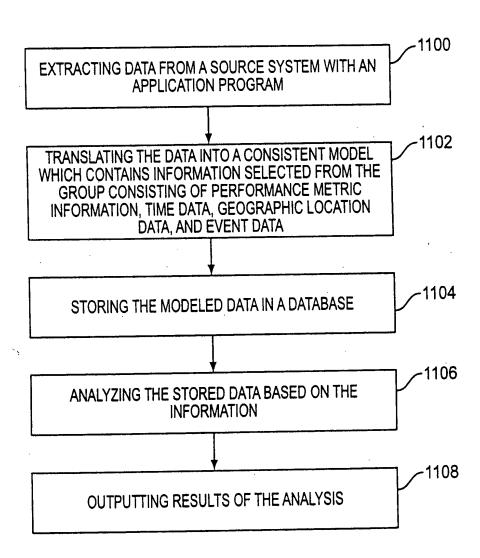


FIG. 11

ENTITY LOCATION					
	IPSA01	IPSA01	IPSA01	IPSA01	IPSA01
OPERATING SYSTEM	HP-UX 10.2	HP-UX 10.2	HP-UX 10.2	HP-UX 10.2	HP-UX 10.2
DATAFILE SIZE OPERATING DATABASE (MB) SYSTEM ID	100	50	09	20	30
DATAFILE	//////////////////////////////////////	/files4/oradata/IP 2 SA01/IPSA01idx 01.dbf	/files1/oradata/IP SA01/IPSA01syst em01.dbf		/files2/oradata/IP SA01/IPSA01rbs 01.dbf
RELATED TABLESPACES/ RELATIONSHIPS		IPSADAT01/data tablespace	ALL	ALL	ALL
PHYSICAL	Dat	Index only			Contains the 4 rollback segments for the database
DEFAULT	On- Line	On- Line	-Line	On- Line	On- Line
TABLESPACE	IPSADAT01	IPSAIDX	SYSTEM	TEMP01	RBS01

FIG. 12

88,492,983,638 86,418.93	36,168,573,638 35,320.87	18,727,103,638 18,288.19	10,006,368,638 9,771.84	5,646,001,138 5,513.67	4,773,927,638 4,662.04	TOTAL SPACE NEEDED (BYTES) TOTAL SPACE NEEDED (MB)
1,638	1,638	1,638	1,638	1,638	1,638	PERF_METRIC_TB
1,285,632,000	1,285,632,000	1,285,632,000	1,285,632,000	1,285,632,000	1,285,632,000	PERF METRIC TIME TB
82,000,000,000	32,800,000,000	16,400,000,000	8,200,000,000	4,100,000,000	3,280,000,000	PERF FACT TB
5,200,000,000	2,080,000,000	1,040,000,000	520,000,000	260,000,000	208,000,000	PERF FACT DAILY TB
5,100,000	2,040,000	1.020,000	510,000	000'511 255,000	200,000 204,000	NETWORK FIMNT TR
0000000	000 000	110,000	000 100	001.017		וסוער סו עסרו זיינורר (פון ורס)
						TOTAL CDACE/TABLE (BVTEC)
2,200,000,000	880,000,000	440,000,000	220,000,000	110,000,000	88,000,000	TOTAL RECORDS
200,000,000	80,000,000	40,000,000	20,000,000	10,000,000	8,000,000	TOTAL DAILY ROLLUP RETAINED
200,000	200,000	100,000	20,000	75,000	20,000	DAILY ROLLUP RECORDS/DAY
2,000,000,000	800,000,000	400,000,000	200,000,000	100,000,000	80,000,000	TOTAL DETAIL RECORDS
20'000'000	20,000,000	10,000,000	2,000,000	2,500,000	2.000.000	DETAIL RECORDS/DAY
400	400	400	400	400	400	DAILY ROLLUP DATA RETENTION
<del>-</del>	40	9	40	40	40	DETAIL DATA RETENTION
<u> </u>	100	199	9	100	9	POLL FREQUENCY
<b>10</b>	<b>e</b>	9	2	<b>9</b>	<b>Q</b>	AVERAGE METRICS/FI FMENT
20,000	20,000	10,000	2,000	2,500	2,000	ELEMENTS

FIG. 13

TABLE	COLUMN	DATA TYPE	COULMN SIZE (BYTES)	ROW SIZE (BYTES)	SPACE USED/ ROW (BYTES)
ELMNT_LOC_TB	ELMNT_LOC_CD ELMNT_CITY_NM ELMNT_STATE_DBRV	Varchar2(5) Varchar2(30) Varchar2(2)	6 31 3	43	45
EVENT_CD_TB	EVENT_CD EVENT_STRING EVENT_AVAIL_TYPE EVENT_PAIR			3	11
EVENTS_FACT_TB .	ELMNT_KEY_CD PERF_TIME_KEY_CD EVENT_CD EVENT_DURATION EVENT_SEVERITY EVENT_CLASS	Number(10) Number(10)	7 7	17	. 19
NETWORK_ELMNT_TB	ELMNT_KEY_CD ELMNT_NM ELMNT_TYPE_CD ELMNT_VNDR_NM ELMNT_VNDR_MDL ELMNT_VAL_DT ELMNT_LOC_CD	Number(10) Varchar2(20) Varchar2(2) Varchar2(30) Varchar2(20) Date Varchar2(5)	7 21 3 31 21 8 6	100	102
PERF_FACT_DAILY_TB	ELMNT_KEY_CD METRIC_KEY_CD PERF_TIME_KEY_CD DLY_MIN_AMT DLY_MAX_AMT DLY_MEAN_AMT DLY_MEDIAN_AMT DLY_STDDEV_AMT	Number(10) Number(10) Number(10)	. 7 7 7	24	26
PERF_FACT_TB	ELMNT_KEY_CD   PERF_TIME_KEY_CD   METRIC_KEY_CD   PERF_METRIC_VAL	Number(10) Number(10) Number(10) Number(25,5)	7 7 7 15	39	41
PERF_METRIC_TB	METRIC_KEY_CD METRIC_NM METRIC_SRC METRIC_INS METRIC_SUB_INS	Number(10) Varchar2(30) Varchar2(20) Varchar2(30) Varchar2(30)	7 31 21 31 31	124	126
PERF_METRIC_TIME_1	B PERF_TIME_KEY_CD PERF_DT PERF_DAY PERF_MON PERF_YR PERF_HOUR PERF_MIN PERF_SEC PERF_DOW	Number(10) Date Number(2) Number(4) Number(2) Number(2) Number(2) Varchar2(9)	7 8 2 2 3 2 2 2 2	370	372

	TIME TO LOAD (DIRECT)	TIME TO LOAD (CONVENTIONAL)	NUMBER OF ROWS LOADED	AMOUNT OF DATA (MB)	COMMENTS
EMPTY	00:04:32	00:30:12	1,048,576	35	
1 MIL ROWS IN TABLE	00:06:29	00:32:57	1,048,576	35	INDEX WAS 10 MB LARGER FOR CONVENTIONAL LOAD. HIS SUGGEST SOME DEGREE OF FRAGMENTATION OCCURRED DURING LOAD WHICH WOULD REQUIRE WEEKLY INDEX MAINTENANCE
EMPTY	00:14:49	01:31:47	3,145,728	106	
2 MIL ROWS IN TABLE	00:08:49	00:35:49	1,048,576	35	INDEX WAS 30 MB LARGER FOR CONVENTIONAL LOAD. THIS SUGGEST SOME DEGREE OF FRAGMENTATION OCCURRED DURING LOAD WHICH WOULD REQUIRE WEEKLY INDEX MAINTENANCE.
EMPTY	00:30:10	03:05:24	6,291,456	212	
3 MIL ROWS IN TABLE	00:22:52	01:33:15	3,145,728	106	HAD TO INCREASE THE SIZE OF THE INDEX TABLESPACE IN ORDER FOR THE NEW INDEX AND THE OLD INDEX TO MERGE AT THE END OF DIRECT LOAD.

FIG. 15

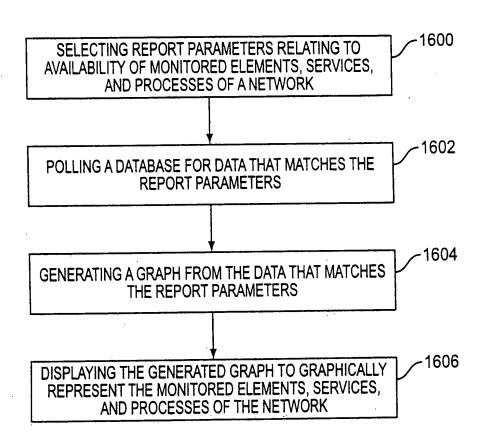


FIG. 16

Colored Montal - City Notes and		
Select Metric Class - Netscape  Edit Yiew Go Communicator Help	<del></del>	
Bookmarks Location: http://nsmmpe33/cgi	al-bin/adbox of I	♥  (m) What's Related
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Adhoc Reporting	7	
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etwork Element Performance Next aily Rollup Statistics lement Availability vents ternet Application Performance T Server Performance	1702	,
lease choose a Metric Class letwork Element Performance   Next   laily Rollup Statistics lement Availability vents lement Application Performance IT Server Performance letwork Element Performance roceas Availability touter port/WAN Performance	<b>1</b> 702	

FIG. 17A

[	Performance Charting - Netacape	
	FBe Edit View Go Communicator Help  1 8 Bookmants  Location: [http://nsmmpe33/ogi-bin/adhoc.pl	▼ ( M) What's Related N
Ī	Network Element Performance	
	Please choose a report type	
1710	[Network Element Performance   •	
	T rend Boxplot School S	

FIG. 17B

	裏 Trend Boxplot - Netscape	
	File Edit View Go Communicator Help  S Bookmarks D Location: http://nsmmpe33/cgi-bin/adhoc.pl	▼  (M) What's Related [X]
	Trend Box Plot: Network Element Perfor	mance 1806
	THIs: Network Element Performance Report	
1802-	Element(s): Insumrt03 nsumrt04  Available Elements: Insumrt04	Location(s): Kinneapolis  Available Cities: Minneapolis add
1002	Metric(s):  CPU Busy (%)  CPU Processor Time (%)  CPU Utilization (%)  hold down the control key to choose multiple options	Element Type: Router 1804
	Start Date (yyyy mm dd): Raport Range (da	
	Submit Re	set

FIG. 18

			1	report ofy	7		2			7	2	4	0	
				x axis range	74	all routers	8	24	24	æ	24	89	74	8
				x axis units	hours	nodes	days	hours	hours	days	hours	days	hours	days
				y axis range	0-100	0-100	0-100	all elements	0-100	0-100	0-ifSpeed	0-iiSpeed	0-itSpeed	0-iSpeed
				y axis units	26	%		elements	%	%	packets/sec	packets/sec	seconds	seconds
				Graph type	x-y line	boxplot	boxplot	spectrum	x-y line	boxplot	x-y line	boxplot	x-y line	boxplot
d rt Oty	t 2 d Patrol Metrics			Generic Report Type	Daily detail	Daily companson	Monthly trend	Daily exception spectrum	Daily detail, n sub-objects	Monthly trend	Daily detail, n sub-objects	Monthly trend	Daily detail, n sub-objects	Monthly trend
all the daily batch report types required outs is listed in the column Batch Report	beneric Report Types detailed on shee by each report are given for Snmp an	(*) are optional for Phase 2		Report	CPU Utilization Daily Detail	CPU Utilization Daily Comparison	CPU Utilization Trend	Router Exceptions	Interface Utilization Daily Detail	, Interface Uffization Trend	Interface Utilization Daily Detail	Interface I lifization Trend	Response Time Daily Detail*	Response Time Trend*
Notes  1. The Object and Report columns list all the daily batch report types required  2. The total number of daily batch reports is listed in the column Batch Report Oly	<ol> <li>Each batch report is one of seven Generic Report Types detailed on sheet 2</li> <li>Data collection requirements driven by each report are given for Snmp and Patrol Metrics</li> </ol>	5. The reports marked with an asterisk (*) are optional for Phase 2		Ohiert	Router Cisco 7500				Router Interfaces/WAN					

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	Naming standard:				
	<description units=""></description>				
	Database variable name				
Batch report requirements	y axis metric name	SNMP metrics	Patrol metrics	Patrol Collector	Max/Min Precision
Wo router reports daily:	Coubusy Percent	busyPer	NA	N/A	
One report daily,	ConBusy Percent	busvPer	NA NA	N/A	
Wo mitter frend reports daily	CouBusy Percent	busyPer	NA	NA	
One report daily, showing	YN.	NA	NA	N/A	
Two router reports daily, each showing two interfaces	InterfaceUtilization Percent	ifinOctects, ifOutOctets, ifSpeed	NA	NA	
Four interface reports daily	InterfaceUtilization Percent	ifinOctects, ifOutOctets, ifSpeed	NA	NA	
<b>∦</b> ∵	InterfaceUtilization BPS	ifinOctets, ifOutOctets, ifSpeed	NA	NA	
<u>}</u>	InterfaceUtilization BPS	ifinOctets, irOutOctets, irSpeed	NA	NA	
	NA NA	NIA	NA	NA	
		NA	MA	¥.	**

Unix servers	CPU Utilization Daily Detail	Daily detailx	x-y line	%	0-100	hours	24	
	CPU Utilization Trend	Monthly trend	poxplot	%	0-100	days	30	
	Memory Utilization Daily Detail		x-y line	bytes	0-100	hours	24	
	Memory Utilization Trend		boxplot	bytes	0-100	days	30	_
	Network I/O Daily Detail		x-y line		0-100	hours	24	
	Network I/O Trend		poxplot	%	0-100	days	30	_
	Disk Percent Busy Daily Detail			%	0-100	hours	24	
	Disk Percent Busy Trend	Monthly trend	boxpiot	%	0-100	days	30	-
		Daily exception spectrum spectrum		elements	all elements	hours	24	-
NT servers	CPU Utilization Daily Detail	Daily detail	x-y line	%	0-100	hours	24	
	CPU Utilization Trend	Monthly trend	boxplot	%	0-100	days	8	-
	Memory Utilization Daily Detail		x-y line	% or bytes	0-100	hours	24	
	Memory Utilization Trend	Monthly trend	poxplot	% or bytes	0-100	days	30	
	Network I/O Daily Detail	Daily detail	x-y line	packets/sec	0-100	hours	74	-
	Network I/O Trend	Þ	boxplot	packets/sec	0-100	days	30	
	Disk Percent Busy Daily Detail		x-y line	%	0-100	hours	77	-
		Monthly trend	boxplot	%	0-100	days	8	
		Daily exception spectrum	spectrum	elements	all elements	hours	24	
Network Elements (all hardware)	Network Availability Bar Chart	Daily availability bar chart	bar	%	0-100	elements	all elements	
	Network Availability Spectrum <sup>*</sup>	Daily availability spectrum spectrum		elements	all elements	hours	24	0
Internet Services (fault mgmt)	Process Availability Bar Chart	Daily availability bar chart : bar		%	0-100	processes	all processes	

Ina carvar rannit daily	Coul Mization Percent	NA	CPUCoultil	VMColl	0,100 - #:##
	Coul Miration Percent			VMColl	0/100 - #:###
	Memory-Free Paries	NA	MEMFreeMem	VMColl	#####
	MemoryFree Pages	N/A		VIACOII	### +10
\ \ \ \ \ \	Network Traffic PPS	NA	NETPacketsOut	NETCOIL	### +10
	Network Traffic PPS	NIA		NETColl	###-+10
	DiskBusy, Percent	NA	DSKPercentBusy		0/100 - #:##
	DiskBusy Percent	NA	DSKPercentBusy		0/100 - #:##
Servers	NA	NA	NA	NA	
One server report daily	CouProcessorTime Percent		<b>CPUprcrProcessorTimePercent</b>	CPUProcessorColl	### - 001/0
	CouProcessorTime Percent		CPUprcrProcessorTimePercent	CPUProcessorColl	0/100 - #:##
	MemoryFree Movies		MEMmemAvailableBytes	MEMMemoryColl	#####
	MemoryFree Mbytes		MEMmemAvailableBytes	MEMMemoryColl	###-+10
	Network Traffic PPS		NETniPcktsPerSec	NET Network Interface Coll	##:#-+/0
	Network Traffic PPS		NETniPcktsPerSec	NETNetworkInterfaceColl	#### 0/+ - #;###
	DiskTime_Percent	Managara a	POpdDiskTimePercent	PDPhysicalDiskColl	01100 - #:##
One server report daily, showing two disks	DiskTime_Percent		POpdDiskTimePercent	PDPhysicalDiskColl	0/100 - #:###
One report daily, showing exceptions from two servers	NA NA	NA	NA	N/A	NA
One report showing all elements	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA
· [	N.	N/A	N/A	NIA	NA
	NA	NA	NA	≸	

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all processes	8	all services			<b>3-max value</b>	<b>Hmax value</b>	0-max value	0-max value	0-max value	<b>Amax value</b>	)-max value	<b>J-max value</b>		
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processes		services			seconds	spucces	seconds	seconds	seconds	seconds	seconds	seconds		
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最	_	룡		lext	x-y line		x-y line	toda poxe	x-y line	poxplot	x-y line	poxog		
Daily availability spectrum :   spectrum	Daily availability bar chart - bar	Daily availability spectrum Spectrum		<u> </u>	×	ĕ	×	ĕ	×	-	<u>                                     </u>	<del></del>	-	$\vdash$
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会	擅	壹		증		Ē		ᄝ		물		Monthly trend		
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<u>Ş</u>	· 🚊	<b>1</b>		Textual list of all events	Daily detail	Monthly trend	Daily detail:	Monthly trend	Daily detail ::	Monthly trend	Daily detail	量		
-	٣		1	<u></u>							_	$\overline{}$	Τ	1
- -	_				FTP Response Time Daily Detail*		SMTP Response Time Daily Detail*	-	NNTP Response Time Daily Detail*	-	HTTP Response Time Daily Detail*	-		
Process Availability Spectrum*	Service Availability Bar Chart	ilih Snechum				TP Response Time Trend*	B	SMTP Response Time Trend*	18	NNTP Response Time Trend*	Day.	HTTP Response Time Trend*		
S	學	5	} .	Report	P	le l	眉	E	le E	LE E	Tall and the	置		
E	景	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		8	las Las	88	翼	28	18	18	8	182		
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				<u></u>	-									
				iects										
				All objects (fault mamt)										
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FIG. 19E

One report chousing 5 1SD anne · · · INIA	N/A	NA NA	MA
One report showing 5 ISP anns: NA	NA	NA	NIA
	NA	NA	NIA
One report daily NA Schowing all events	WA	NA	NA
	ftpResponseTime	fpMonitor	
	ftpResponseTime	fpMonitor	
	smtpResponseTime	smtpMonitor	
	smfpResponseTime	smtpMonitor	
	nntpResponseTime	nntpMonitor	
	nntpResponseTime	nntpMonitor	
	httpResponseTime	httpMonitor	
	httpResponseTime	httpMonitor	

FIG. 19F

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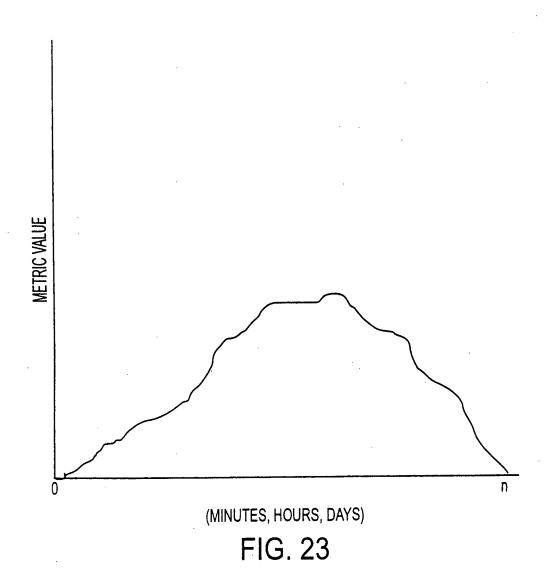
NOTES						
1 "Ohier!" may refer to an element, process, or service	of process, or s	ervice.				
Generic Report Type	Graph Type Description	iption	Scope	X-axis	X-axis	Y-axis
				Units	Range	Units
Daily Detail	XY line graph	Shows all samples of a single metric from a single XY line graph object over one day	1 object, 1 metric	Hours& minutes	24 hours	Metric value
Daily Detail. N Sub-objects	XY line graph	Shows all samples of multiple metrics from a single object over one day	n objects, 1 metric	Hours & minutes	24 hours	Metric value
Daily Object Comparison	Boxplot	Compares distributions of a single metric across multiple objects for one day	n objects, 1 metric	Objects	n objects	Metric value
Monthly Trend	Boxplot	Shows changes in distributions of a single metric over one month	1 object, 1 metric	Days	30 days	Metric value
tv Bar Chart	Bar Graph	Compares percent availability for multiple services or objects for one day	n objects, 1 availability	Objects	n objects	Percent
1	Spectrum	Shows exceptions for multiple objects as points over time.	n objects, Hours & n exceptions minutes	Hours & minutes	24 hours	Objects
Daily Exception Text Report	Text List	Text list of all events over one day, with columns for date-time, event string, code, and severity.	n objects, n exceptions N/A	NA	NA	NA
Daily Availability Spectrum*   Spectrum	Spectrum	Shows up/down status as a continuous color-coded lineover time: red=down, green=up.	n objects, 1 availability	Hours & minutes	24 hours	Objects
ממון נותוות וויון בלב						

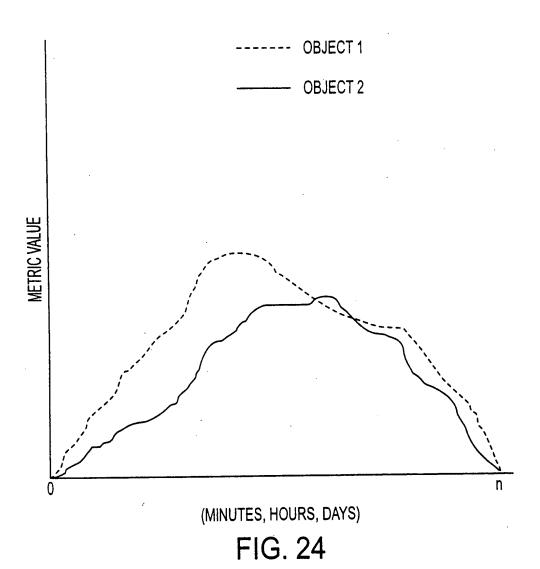
itst Menu choice	2nd menu choice	3rd menu choice Ath menu choice		5th menu choice	Sth menu choice 6th menu choice (7th menu choice (Metrics(s)	7th menu choice	Wetrics(s)
SS	Select Report Type	Select Element(s)	Select Element(s)   Select Location(s)   Select start date # of days	Select start date	# of days		
	WA	न्ल	<b>-</b>	yesterday	-		
Element Availability	Percent Availability Bar Graph (celement name)		<element location=""></element>	<start date=""></start>	<days></days>		WA
Service Availability	Percent Availability Bar Graph   <element nam<="" th=""><th>ക</th><th><element location=""></element></th><th><start date=""></start></th><th><days></days></th><th><sevice></sevice></th><th>NA</th></element>	ക	<element location=""></element>	<start date=""></start>	<days></days>	<sevice></sevice>	NA
Process Availability	Percent Availability Bar Graph   <element name=""></element>		<element location=""></element>	<start date=""></start>	<days></days>	<pre> corocess&gt;</pre>	NA
Events	Exception Spectrum		<element location=""></element>	<start date=""></start>	<deb></deb>		NA
k Element Performance	Detail XY Line Graph		<element location=""> <start date=""></start></element>	<start date=""></start>	<days></days>		Cpu Utilization (busyper)
	Trend Boxplot	<element name=""></element>	<element location=""> <start date=""></start></element>	<start date=""></start>	<days></days>		Cpu Utilization (busyper)
	Comparison Boxplot	<element name=""></element>	<element location=""> <start date=""></start></element>	<start date=""></start>	<days></days>		Cpu Utilization (busyper)
Router port/WAN Performance	Detail XY Line Graph	<element name=""></element>	<element location=""> <start date=""></start></element>	<start date=""></start>	<days></days>	<instance></instance>	Interface Utilization (fftn/OutOctects)
	Trend Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>	<instance></instance>	Interface Utilization (film/OutOctects)
	Comparison Boxplot	<element name=""></element>	<element location=""> <start date=""></start></element>	<start date=""></start>	<days></days>	<instance></instance>	Interface Utilization (iffin/OutOctects)
Unix Server Performance	Detail XY Line Graph	celement name>	<element location=""></element>	<start date=""></start>	<days></days>	<instance></instance>	Cou Utilization, Memory Utilization, Network Utilization, Disk Percent Busy
	Trend Boxplot	kelement name	<element location=""> <start date=""></start></element>	<slart date=""></slart>	<days></days>	<instance></instance>	Cpu Utilization, Memory Utilization, Network Utilization, Disk Percent Busy
	Comparison Boxolot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>	<instance></instance>	Cpu Utitization, Memory Utilization, Network Utilization, Disk Percent Busy
NT Server Performance	Detail XY Line Graph	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>	<instance></instance>	Cpu Utilization, Memory Utilization, Network Utilization, Disk Percent Busy
	Trend Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>	<instance></instance>	Cpu Utilization, Memory Utilization, Network Utilization, Disk Percent Busy
	Comparison Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>	<instance></instance>	Cpu Utilization, Memory Utilization, Network Utilization, Disk Percent Busy
Internet Application Performance Detail XY Line Graph	Detail XY Line Graph	celement name>	<element location=""></element>	<start date=""></start>	<days></days>		Response Time
	Trend Boxplot	celement name>	<element location=""></element>	<start date=""></start>	<days></days>		Response Time
	Comparison Boxplot	<element name=""></element>	<element location=""></element>	<start date=""></start>	<days></days>		Response Time
Daily Rollup Statistics	Detail XY Line Graph	<element name=""></element>	<element location=""> <start date=""></start></element>	<start date=""></start>	cdays	<metric name=""></metric>	krollup slatistic> (min, max, mean, sid dev, sample size)

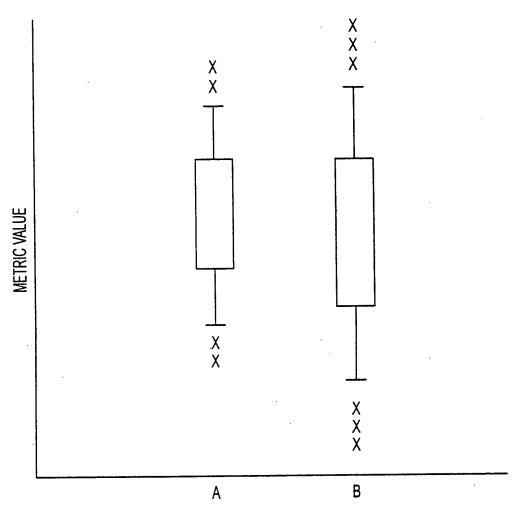
FIG. 2

SNMP/PATROI METRICS	DESCRIPTION	PLATFORMS	UNITS	
	Provides the percent of CPU usage over the first 5 second period in the	Douther	narrantana	
busyPer	scheduler.	Roulei	percentage	
	The total number of octets received on the			
ifinOctets	interface, including framing characters.	Kouter interface	ocieis	
	The total number of octets transmitted out of the interface, including framing		•	
ifOutOctcets	characters.	Router Interface	octets	
	An estimate of the interface's current bandwidth in bits per second. For		-	
	interfaces which do not vary in bandwidth or for those where no accurate		-	•
ifSpeed	estimation can be made, this object should contain the nominal bandwidth.	Router Intertace	bits per second	
CPUCouUtil	Displays the percentage of CPU utilization.	UNIX	percentage	
MEMFreeMem	Displays the number of pages of memory available.	UNIX	pages	
NETPacketsIn	Displays the total number of incoming packets within a sample interval.	NNIX	packets	
NETPacketsOut	Displays the total number of outgoing packets within a sample interval.	UNIX	packets	
	Displays the percentage of time that the device is busy servicing a transfer			
DSKPercentBusy	request.	CNIX	percentage	
	Displays a percentage of the elapsed time that a processor is busy	!	-	-
CPUprcrProcessorTimePercent	executing a non-idle thread.	2	percentage	
	Displays the size of the virtual memory currently on the zeroed, free, and		•	
MEMmemAvailableBytes	standby memory lists.	Z	megabytes	
NETniPcktsPerSec	Displays the rate that the packets are sent and received on the network.	M	packets per second	
	Displays the percentage of elapsed time that the disk spends servicing read	!	-	
PDpdDiskTimePercent	or write requests.	Z	percentage	
		···-	,	

FIG. 22

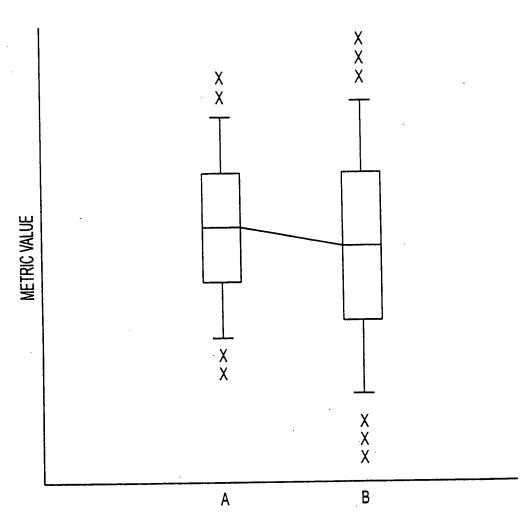






(ELEMENTS, INSTANCES)

FIG. 25



(DAYS, WEEKS, MONTHS)

FIG. 26

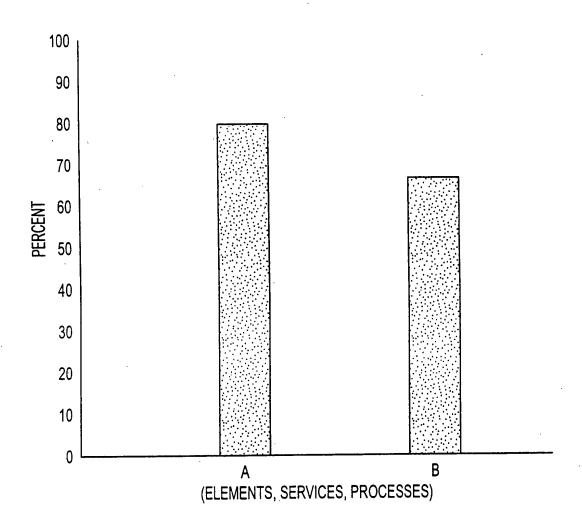


FIG. 27

Replacement Drawings Serial No. 09/471,777

ELEMENTA XXXOOXXXXXXXOOXXXXXXXXOOOOXXX 71%

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 (HOURS)

FIG. 28

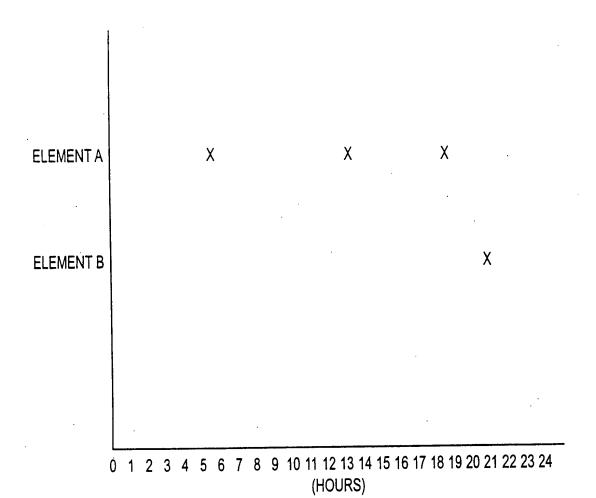


FIG. 29

Date-Time	Elen	nentEvent	string	Duration	Severity
01/12/1998 06:34:12	nsmr	nws16	CPU Utilization over 80%		
Critical 01/12/1998 08:01:23 01/12/1998 16:54:52	nsmmws09 twmmnt02	Host d	lown ervice down	3:24:43 Critical 0:19:42 Critical	٠

FIG. 30

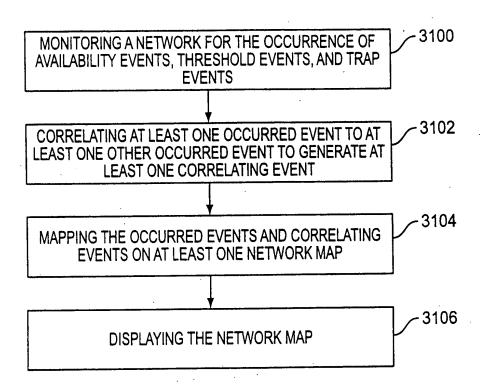
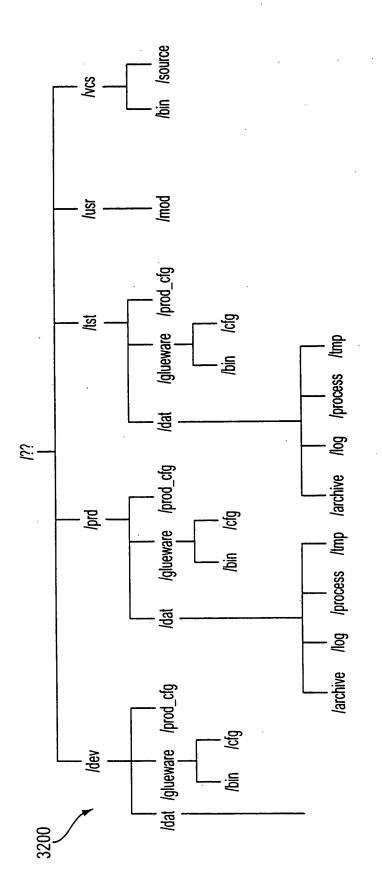


FIG. 31



CURRENT SETTINGS/VALID VALUES

Directory structure will be stored on ucmmfs02

The directory /sa will be the mount point to nsmmws09, nsmmws16, and twmmdb02

Files owned by with group of twsa

FIG. 32